

AMENDMENTS TO THE SPECIFICATION

Please delete the following section subtitle on page 1, line 1, as follows:

DESCRIPTION

Please replace the following section subtitle on page 3, line 10, as follows:

Summary Disclosure of the Invention

Please delete the following section subtitle on page 4, line 11, as follows:

Effect of this Invention

Please replace the paragraph at page 5, lines 6-23, with the following amended paragraph:

In this case, the moisture resistance in this invention means that the water vapor permeability, which the waterproof sheet essentially has, lower by coating the resin on the waterproof sheet, in the case that the water vapor permeability is measured on the basis of JIS Z-0208 method of test. In accordance with an experiment of this inventor, if PVA resin of 10 μm is coated on the waterproof sheet which the water vapor permeability is 9000 $\text{g/m}^2/24\text{ h}$, it appears that the water vapor permeability lower to 1500 $\text{g/m}^2/24\text{ h}$. As described later, it is preferable that the water vapor permeable waterproof sheet is constituted by a sheet material in which the water vapor permeability on the basis of JIS Z-0208 method of test is 700 $\text{g/m}^2/24\text{ h}$ or more, particularly 7000 $\text{g/m}^2/24\text{ h}$ or more. Further, in accordance with this absorbent article on the basis of the structure mentioned above, there is obtained a pronounced effect that the water content indicator is reacted and changed for an extremely short time within 10 second, even in the case that a small amount, for example, 10 cc of urine is excreted.

Please replace the following section subtitle on page 6, line 17, as follows:

Detailed Description Best Mode of Carrying Out the Invention

Please replace the paragraph at page 7, lines 4-24, with the following amended paragraph:

The present paper diaper 100 is formed by adhering and fixing an absorbent main body 10 integrated by adhering a rectangular liquid permeable top sheet 11, an absorbing element 41 [[AB]] formed by covering a sand glass-shaped absorbent 13 with a crepe paper 14, a rectangular water vapor permeable waterproof sheet 15, and a liquid impermeable back sheet 12 by a hot melt adhesive agent or the like in this order (reference sign * in the drawing denotes an adhered portion) to a front face side of a flexible outline sheet 1. In this case, a liquid permeable second sheet 16 [[11S]] is interposed between the liquid permeable top sheet 11 and the absorbing element 41 [[AB]]. In this case, for the purpose of increasing a fitting property around a hipline and preventing a body fluid from leaking out from a longitudinal direction, a waist elastic stretchable member 20 and a hipline elastic stretchable member 21 are provided, and in order to prevent body fluid from leaking out from a leg line opening portion LO, there is formed a rising cuff 51 [[B]] (this rising cuff 51 [[B]] is constituted by a rising portion 52 [[B1]] and a flat surface contact portion 53 [[B2]] depicted in Figure 2) for around a leg protruding to a front face side by a rising sheet 40 continuously provided in a width direction and elastic stretchable members 50 and 60. With reference to Figure 2, a rising end 54 is also shown.

Please replace the paragraph at page 8, lines 8-26, with the following amended paragraph:

In this case, the outline sheet 1 is formed by laminating two transparent to semitransparent laminated unwoven fabric cloths or the like having an air permeability and a water repellant. Further, since the top sheet 11 directly touches with a skin of a wearer, the top sheet 11 preferably employs an unwoven fabric cloths, a porous plastic sheet or the like having a pleasant feel. The

absorbent 13 may employ any material as far as it can absorb and hold body fluid, in general, it preferably employs a material in which an absorbent main body obtained by mixing an absorbable polymer to a cotton-like pulp and the absorbent main body is formed in a sand glass shape having certain degree of thickness and rigidity. The absorbing element 41 [[AB]] is obtained by covering an entire of an outer peripheral surface of the absorbent main body with a crepe paper 14 having a flexibility and a liquid permeability. The water vapor permeable waterproof sheet 15 mentioned below is provided together with the liquid impermeable back sheet 12 in such a manner as to cover both side portions of a surface wrapping from a back face to a front face side of the absorbing element 41 [[AB]].

Please replace the paragraph at page 9, line 24 – page 10, line 6, with the following amended paragraph:

In this case, in accordance with an experiment ~~by this inventor~~, taking into consideration amount of sweating of the wearer, a sheet material in which a water vapor permeability on the basis of JIS Z-0208 method of test is 700 g/m.sup.2/24 h or more is preferable for the water vapor permeable waterproof sheet 15, and in order to keep a comfortable environment particularly after a violent movement or passing urine, a sheet material in which the water vapor permeability is 7000 g/m.sup.2/24 h or more is most preferable.

Please replace the paragraph at page 10, lines 7-17, with the following amended paragraph:

In the present paper diaper 100, on an inner surface of the water vapor permeable waterproof sheet 15, a water content indicator 70 informing of an excretion of body fluid is provided at least near a center line of the absorbent 13 in a range of being covered by the absorbent 13. The water content indicator 70 is shown by a black cross section in FIGS. 2 and 3. The water content indicator

70 is constituted by a hydrophilic resin coating layer 71 and an information mark 72 provided on an inner surface of the hydrophilic resin coating layer 71, as shown in FIG. 4 by enlarging a cross section of a main portion (a portion shown by a dotted line circle 61 ~~[[R]]~~ in FIGS. 2 and 3).

Please replace the paragraph at page 13, lines 7-18, with the following amended paragraph:

In accordance with the present paper diaper 100 provided with the water content indicator 70 as mentioned above, if the body fluid, for example, the urine is excreted to the surface of the liquid permeable top sheet 11, urine is diffused and moved so as to be absorbed within the absorbing element 41 ~~[[AB]]~~. However, at this time, if urine acts on the water content indicator 70 adjacent to the absorbing element AB although it is at a trace quantity, the information mark 72 is immediately discolored to decolored in response to the water content included in this urine. Accordingly, the user can immediately recognize the change of the information mark 72 from the outer side via the transparent to semitransparent back sheet 12 and the outline sheet 1.

Please replace the paragraph at page 13, lines 19-26, with the following amended paragraph:

In this case, in accordance with an experiment ~~by this inventor~~, it is confirmed that the water content indicator 70 is reacted and discolored for a short time within ten second with respect to an extremely small amount of urine, for example, 10 cc urine. In this case, the water content indicator 70 is provided in the present paper diaper 100 having the absorbent 13 formed by uniformly mixing the pulp and the SAP in such a manner that respective weights come to 200 g/m² and 150 g/m².

Please replace the paragraph at page 14, lines 17-22, with the following amended paragraph:

In this case, the present paper diaper 100 in accordance with the first embodiment of this invention described above is provided with the second sheet 16 [[11S]] and the outline sheet 1, however, these sheet members are not always necessary, but can be omitted in accordance with configuration, purpose, application or the like of the absorbent article.

Please replace the paragraph at page 16, lines 2-17, with the following amended paragraph:

As illustrated, the water content indicator 70B is common to the water content indicator 70A in the point of the structure constituted by the hydrophilic resin coating layer 71 and the information mark 72 having the same shape and thickness, however, as shown in FIG. 8, it is different from the water content indicator 70A in point of printed surfaces 73a, 74 [[73b]] and 73c which are provided between the water vapor permeable waterproof sheet 15 and the hydrophilic resin coating layer 71 at positions corresponding to the arranged positions of the respective information marks 72 by a general ink, that is, an ink which is not discolored even if it is brought into contact with the water content by the same printing system mentioned above. These printed surfaces 73a, 74 [[73b]] and 73c are formed by same color ink to different color inks each to each. In this case, since a capability of the ink is lowered if different inks are mixed, the mixed ink is not preferable.

Please replace the paragraph at page 16, lines 18-20, with the following amended paragraph:

Further, in this embodiment, a flat surface shape of the printed surfaces 73a, 74 [[73b]] and 73c are mark of star-shaped, however, the mark can be optionally changed as mentioned above.

Please replace the paragraph at page 16, line 21 – page 17, line 4, with the following amended paragraph:

In accordance with the water content indicator 70B mentioned above, in spite that each of the information marks 72 is discolored to decolored if the excreted urine is brought into contact with the water content indicator 70B, the printed surfaces 73a, 74 [[73b]] and 73c are not changed. Accordingly, in the case of viewing from the outer side, only the printed surfaces 73a, 74 [[73b]] and 73c remain, and the pattern of the print appears to be changed between after and before passing urine, whereby it is possible to instantaneously and securely inform the user of the excretion.

Please delete the following section subtitle on page 17, line 5, and replace the paragraph at page 17, lines 6-10, with the following amended paragraph, as follows:

Industrial Applicability

With respect to industrial applicability, for example, it [[It]] goes without saying that this invention is not limited to the pants type disposable paper diaper, but can be widely applied to the other absorbent articles such as the sanitary napkin, the urine remaining pad and the like in addition to a tape type disposable paper diaper.